## Abstract of the Disclosure

A diagnostic appartus and method for a fuel system that supplies fuel to an internal combustion engine. The fuel system includes a fuel tank that has a headspace and a filler occluded by a removable cap, a charcoal canister in fluid communication with the headspace, and an integrated pressure management apparatus. The integrated pressure management apparatus has a pressure operable device and a switch that signals displacement of the pressure operable device in response to negative pressure at a first pressure level in the charcoal canister. The diagnostic apparatus comprises a pressure source, a first fitting adapted to be occluded by the removable cap, a second fitting adapted to sealingly engage the filler, an orifice in fluid communication with the pressure source, with the first fitting, and with the second fitting, and a first valve controlling the fluid communication with the orifice. The first fitting is in fluid communication with the pressure source and with the first fitting.